Google Earth Circle Project Name

Please save this document into your home directory or flash drive. You may use the document if you can’t open Google Earth.

Directions:

* Go to Google Earth and start that application.
* Start the GeoGebra application, Finder, Applications, GeoGebra
  + Or start Geometers Sketchpad 5 (GSP5) \*\* only one needs to be open\*\*
* Each location has a set of instructions and questions you must answer.
* SOME of the locations have you copy and paste the geometry work (from geogebra or sketchpad) into this document. IF you have problems with the please ask for help.
* To get the grade you must email me the document, print it out and turn in, **or** submit it in Moodle. Not all 3 just pick one way to turn it in.

Directions to take Google Earth to Geogebra

* Find location in Google Earth
* Click open apple, Shift, 4 – crosshairs will show up as cursor.
* Click and drag where you want to copy image. Make sure you get enough of the image and that you can see the image.
* It should save to desktop
* Open geogebra from applications folder.
* You need a tool that looks like a flower, if it is not on the menu this is how you find it.
  + Click tools
  + Special object tools
  + Insert image
  + Click area to insert picture and select where you saved picture.

Directions to take Google Earth to Sketchpad

* In Google Earth Click Edit, copy, Copy Image
* Open Sketchpad, click edit, paste image
* Click edit, properties, uncheck arrow selectable, ok

Directions to copy images back onto worksheet to turn in for credit

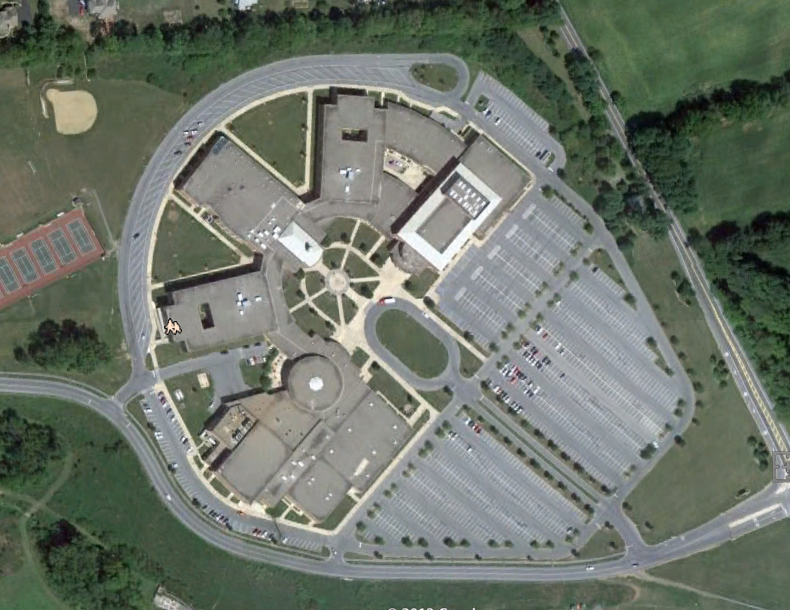
* I would suggest, taking a screen shot and then paste the screen shot into this document.
* Hold down, open apple, shift and 4.
* Then click and drag around image to copy.
* Then insert image into doc

Directions to measurements

* When I want an angle or arc measurement it must come from the geometry software, either geogebra or sketchpad.
* When I ask for the length of something, I want the measurement from Google Earth.
  + You will need to use the Google Earth ruler and change the measurement from miles to feet.
  + Click to start measuring then click again to finish the measurement.

Google Earth Sites

* 2600 N Cedar Crest Blvd
  + Mark sidewalk outside of B wing with a letter B.
  + Mark sidewalk to right of C wing with a letter C.
  + Mark sidewalk to left of C wing with a letter C2.
  + Mark sidewalk to right of D wing with a letter D.
  + Create a chord from B to C.
  + Create a chord from C2 to D.
  + Make a perpendicular bisector of each chord.
  + Those 2 chords will intersect at the center of the circle.
  + Make a circle using the center point and point B.



Answer the following questions about our school– some questions will require you to make more objects.

1. Is the flagpole the center of the circle you made from the two chords?
2. What is the distance/length from B to C?
3. What is the distance/length from C2 to D?
4. What is the arc from B to C?
5. What is the arc from C2 to D?
6. What is the distance/length from the flagpole to the back of the B wing?

* London Eye, London England (shadow)
  + Make a chord along the white piece in the water. Label it A and B.
  + Create the perpendicular bisector of that chord.
  + Mark the center of the shadow (circle). Call the center C.



Answer the following questions about the London Eye– some questions will require you to make more objects.

1. What is the measurement of the central angle in the shadow?
2. What is the length of the chord AB?
3. What is the length/ distance of the radius, either CA or CB?

* Stonehenge eye alt around 210m
  + You are going to have to save the geometry on this location and paste it onto this document after all the work is done on it.
  + You are going to create a circle around Stonehenge.
    - Make 2 chords
    - Perpendicular bisect each chord.
    - Mark the intersection of the perpendicular bisectors as the center of the circle.
    - Using the endpoint of one of the chords and the center, make a circle.
  + There is a concentric circle inside the main circle. Using the same center point create the inner circle.

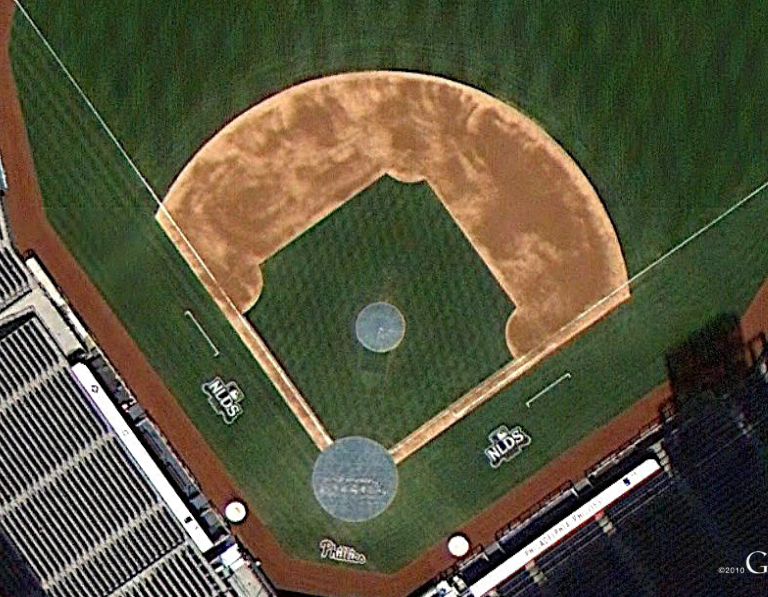


Answer the following questions about Stonehenge – some questions will require you to make more objects.

1. What is the radius (length/distance) of the large circle?
2. What is the radius (length/distance) of the smaller concentric circle?
3. Do any stones fall outside the outer circle?
4. Using the above lines find the bow tie angle and the arcs. You must place the segments on your drawing.
   1. Angle
   2. Arc1
   3. Arc3
5. Insert your screenshot here.

Delete this and place screen shot here.

* Phillies Citizen Bank Park
  + Create points the same place as my example.
  + You will have to create some circles to answer the questions below.



B

A

Answer the following questions about Citizens Bank Park – some questions will require you to make more objects.

1. What is the center of the circle that goes along the edge of the dirt between infield and outfield? Is it the pitchers mound or home plate or someplace else?
2. What is the measurement of Arc AB?
3. What is the measurement (length/distance) from home to A?
4. What is the measurement (length/distance) from home to behind second base?
   1. Is this segment a diameter or a secant of the circle in questions #1?

* Pentagon – Washington DC
  + You are going to have to save the geometry on this location and paste it onto this document after all the work is done on it.
  + You are going to create a circle around the Pentagon.
    - Make chords along the edge of each side of the pentagon.
    - Perpendicular bisect each 2 of the chords.
    - Mark the intersection of the perpendicular bisectors as the center of the circle.
    - Using the endpoint of one of the chords and the center, make a circle.



Answer the following questions about Pentagon – some questions will require you to make more objects.

1. What is the length/distance of one of the sides of the pentagon?
2. Make a radius to the endpoints of one of your chords.
   1. What is the radius measure?
3. Is the pentagon inscribed in the circle?
4. Make central angles to the end of each chord.
   1. What is the measurement of each central angle?
5. What is the angle measurement of each angle in the pentagon?
6. Insert your screenshot here.

Delete this and place screen shot here.